

**S1 Table. Sensitivity analysis using different parameters to describe body fat**

		Odds ratio (95% confidence interval)			
		Group 1 (0-25 <sup>th</sup> percentile)	Group 2 (26-50 <sup>th</sup> percentile)	Group 3 (51-75 <sup>th</sup> percentile)	Group 4 (76-100 <sup>th</sup> percentile)
BF%-RMSE <sup>†</sup>					
Hypertension <sup>††</sup>	Reference	0.99 (0.83-1.18)	1.02 (0.86-1.21)	1.17** <b>(0.99-1.39)</b>	
Dyslipidemia <sup>§§</sup>	Reference	1.15** <b>(0.98-1.36)</b>	0.98 (0.83-1.16)	1.14 (0.97-1.35)	
Diabetes Mellitus <sup>¶¶</sup>	Reference	1.00 (0.73-1.37)	0.91 (0.66-1.25)	0.68* <b>(0.49-0.96)</b>	
FM-RMSE <sup>§</sup>					
Hypertension <sup>††</sup>	Reference	0.82* <b>(0.69-0.98)</b>	1.13 (0.95-1.33)	1.10 (0.93-1.31)	
Dyslipidemia <sup>§§</sup>	Reference	1.15** <b>(0.98-1.35)</b>	1.00 (0.85-1.18)	1.10 (0.92-1.30)	
Diabetes Mellitus <sup>¶¶</sup>	Reference	1.07 (0.78-1.47)	0.77 (0.55-1.08)	0.82 (0.59-1.13)	
Fat Index-RMSE <sup>¶</sup>					
Hypertension <sup>††</sup>	Reference	0.89 (0.75-1.06)	1.11 (0.94-1.32)	1.15 (0.97-1.37)	
Dyslipidemia <sup>§§</sup>	Reference	1.15** <b>(0.98-1.35)</b>	0.96 (0.81-1.13)	1.12 (0.94-1.32)	
Diabetes Mellitus <sup>¶¶</sup>	Reference	1.03 (0.75-1.42)	0.86 (0.62-1.20)	0.74** <b>(0.53-1.03)</b>	

\*: p<0.05, \*\*: p<0.10

†: Sample size in each BF%-RMSE group    Group1; n=2,620, Group 2; n=2,851, Group3; n=3,044, Group4; n=2,766.

§: Sample size in each FM-RMSE group    Group1; n=2821, Group 2; n=2820, Group3; n=2819, Group4; n=2821.

¶: The index of total body fat mass over height squared is named as “Fat Index” for convenience sake.

Sample size in each Fat Index-RMSE group    Group1; n=2,821, Group 2; n=2,820, Group3; n=2,819, Group4; n=2,821.

††: Hypertension is adjusted for age, sex, alcohol, smoking habits, exercise, marriage, family history, medication use, dyslipidemia in 2009, diabetes mellitus in 2009, BMI, (for BF%-RMSE) BF%-slope, (for FM-RMSE) FM-slope, and (for Fat Index-RMSE) Fat Index-slope.

§§: Dyslipidemia is adjusted for age, sex, alcohol, smoking habits, exercise, marriage, family history, medication use, hypertension in 2009, diabetes mellitus in 2009, BMI, (for BF%-RMSE) BF%-slope, (for FM-RMSE) FM-slope, and (for Fat Index-RMSE) Fat Index-slope.

¶¶: Diabetes Mellitus is adjusted for age, sex, alcohol, smoking habits, exercise, marriage, family history, medication use, hypertension in 2009, dyslipidemia in 2009, BMI, (for BF%-RMSE) BF%-slope, (for FM-RMSE) FM-slope, and (for Fat Index-RMSE) Fat Index-slope.